

CLAIMS

- 5
10
15
20
25
30
1. Spraying head for a granulating installation, comprising a slotted nozzle (22), in which a nozzle channel (26) having an oblong cross-section of flow is limited downwards by a floor surface (28), upwards by a top area (30) and laterally by a side face (32, 34) each, an oblong flow control body (36) in the nozzle channel (26) extending axially between the two side faces (32, 34) to limit the height of a nozzle slot, and the control body (36) being pivoted about a longitudinal axis to adjust the height of this nozzle slot; characterized in that the control body (36) is a cylindrical body having an oval cross-section and a central axis, which is approximately centrically disposed between the floor surface (28) and the top surface (30) and pivoted about its central axis (38), such that underneath as well as above the control body (36) a nozzle slot (42, 44) is formed, the height of which can be adjusted by pivoting the control body (36) about its central axis (38).
2. Spraying head according to claim 1, wherein:
the oval cross-section comprises a small and a large axis and the ratio of the small and the large axis is between 0.50 and 0.95.
3. Spraying head according to claim 2, wherein:
the nozzle channel (26) has a rectangular cross-section having a height (H) larger by a few millimeters than the large axis of the oval cross-section, such that the two nozzle slots (42, 44) always remain open.
4. Spraying head according to one of claims 1 to 3, wherein:
the control body (36) comprises a bearing pin (50, 52) at each of its two ends, the bearing pin laterally projecting from the nozzle channel (26) and being rotatably mounted outside the nozzle channel (26).

5. Spraying head according to claim 4, comprising:
a crank (74) stationarily connected to one of the two bearing pins (52);
and
a lifting drive (76) connected to the crank (74) such that a lift of the lifting
drive is converted into a pivoting movement of the control body (36)
about its central axis (38).
5
6. Spraying head according to claim 4 or 5, wherein:
the control body (36) comprises at least at one end a circular cylindrical
sealing flange (62, 64) inserted into a circular hole in a side wall of the
slotted nozzle (22) and sealed herein by means of an O-ring, and
the circular hole is large enough for axially inserting and retracting the
control body (36) through this hole into the nozzle channel (26).
10
7. Spraying head according to one of claims 1 to 6, wherein:
the surface of the control body (36) as well as the floor surface (28) and
the top surface (30) of the nozzle channel (26) are plasma coated.
15
8. Spraying head according to one of claims 1 to 7, comprising
a water supply box with a front side in which the slotted nozzle (22) is
arranged; and
a field of hole type nozzles arranged in the front side above and/or
underneath the slotted nozzle (22).
20
9. Spraying head according to one of claims 1 to 8, comprising:
a control device of the granulating water pressure in the spraying head,
in which the slotted nozzle (22) is incorporated as actuator.
25
10. Spraying head according to one of claims 1 to 8, comprising:
a control device of the granulating water flow rate in the spraying head, in
which the slotted nozzle (22) is incorporated as actuator.
30